EVERSOURCE ENERGY

56 Prospect Street
Hartford, CT 06103

Allen W. Scarfone
Transmission System Planning
phone: 860-728-4618
email: allen.scarfone@eversource.com

February 11, 2019

Ms. Mariah Winkler
Chair, NEPOOL Reliability Committee
ISO New England, Inc.
One Sullivan Road
Holyoke, MA 01040-2841

Dear Ms. Winkler,

In accordance with Schedule 12C of the ISO New England ("ISO-NE") Transmission, Markets & Services Tariff ("ISO-NE Tariff"), Eversource Energy Service Company ("Eversource") hereby submits the attached Transmission Cost Allocation ("TCA") application(s) reporting cost support information associated with the construction, retirement, or modification to facilities rated 69 kV and above that qualify as regional Pool Transmission Facilities ("PTF") for the following project:

ES-19-TCA-10 Line 379 345 kV Structure Replacement Project

Eversource is requesting that ISO-NE submit this TCA to the NEPOOL Reliability Committee for review, in accordance with ISO-NE Planning Procedure No. 4 ("PP-4").

If you have any questions, I can be reached via the information listed above.

Sincerely,

Allen Scarfone

Allen W. Scarfone

cc: M. Drzewianowski

Attachment B
TCA Application Form

1. Applicant:

Application #: ES-19-TCA-10 Date: Feb-19

Contact Name:	Allen Scarfone
Company Name:	Eversource Energy
Address 1:	56 Prospect Street
Address 2:	
City, State, Zip	Hartford, CT
Contact Phone #	860-728-4618
Email Address	allen.scarfone@eversource.com

RSP Project ID # or Assect Condition ID # 58

Is Project related to CIP-14 Yes [ ] No [X]

2. Project Description: In Service Date: Nov-18

a. **High Level Project Details:**

Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable): **Line 379 345kV Structure Replacement Project**

Project Location (State only): **State:** **NH** **County:** **Cheshire**

b. Summary of PTF-related work for Project:

Replace 55 wood structures on the 379 Line with tubular steel pole structures to mitigate one or more of these deficiencies: woodpecker damage, rot, cracks, and deteriorated steel mechanical connections.

Final project cost details will be known following close out of all project work orders.

c. Summary of Non-PTF-related work for Project:

3. Was a transmission Proposed Plan Application required for this work? Yes [ ] No [X] PPA Number: n/a

4. Has a transmission Proposed Plan Application been approved? Yes [ ] No [ ] N/A [X] Approval Date:
If yes, attach a copy and reference Proposed Plan Application # and approval date. (Please check only one)

Need For Project:

5. Need Based On (Check all Categories that apply):

a. Reliability [X]

b. Economic [ ]

c. Service to new load [ ]

d. New generator interconnection [ ]

Generator Proposed Plan Application Number _____

Generator Proposed Plan Application Date _____

(Attach copy of cover letter & Generator Proposed Plan Application)

e.	Public Policy Transmission Upgrade (PPTU)	☐
f.	Market Efficiency Transmission Upgrade (METU)	☐
g.	Asset Condition	☒
h.	Other (specify in line 6)	☐

6. Provide a narrative description of the need for this Project.
(Include available documentation relative to the need for this Project.)

Replacing these structures remediates the potential for structure failures due to asset condition vulnerabilities. To ensure the continued operability of this line segment, the identified structures in this line section need to be replaced.

Cost of Project:

7. Total Project Cost ($M) **equals PTF + Non-PTF + all other Project Costs**:	**$14,453**
8. Total Proposed PTF Costs	
a. Total Proposed PTF Cost of this Project ($M):	$14,453
b. Requested Pool-Supported PTF Costs associated with this Project ($M):	**$14,453**
c. Breakdown of Requested Pool-Supported PTF Cost associated with this Project ($M): (Consistent with Table 1 and Appendix D of this Procedure)	
Material	$1,179
Labor	$1,100
ROW	$0
Engineering/Permitting/Indirects	$2,080
Escalation	$0
AFUDC (or equivalent)	$190
Contingency	$4
d. Generator Supported PTF Costs* ($M):	$0.00
If the costs in 8.b. plus 8.d. do not equal the total proposed PTF cost (8.a) explain and indicate who is responsible for the remaining costs.	
9. Total Proposed Non-PTF Cost of this Project ($M):	$0
10. Proposed PTF Costs ($M) introduced as a result of local, state or other regulatory/legislative requirements, including costs identified pursuant to Section 1.6.3 of this PP-4.	$0
a. Description of Proposed PTF Cost introduced as a result of local, state or other regulatory/legislative requirements as defined in question 8 above.	
11. All other Project Costs not captured in PTF Costs (8) or Non-PTF Costs (9) ($M) associated with this Project:	$0

12. Total PTF Cost based on: (check one)
Actual Costs ☐
OR
Estimated Costs* ☒

13. Valuation Year(s) of dollar amounts submitted above: 2018

14. If applicable, explain how the cost of common facilities were allocated between PTF and Non-PTF.

15. Does this Project result in a change of existing Non-PTF facilities to PTF? Yes ☐ No ☒

16. Describe the major transmission alternatives, and their costs consistent with the breakdown provided in item 7 of this Application, that were considered. Provided an explanation why the preferred alternative was selected.
(Include available documentation relative to the major transmission alternatives analysis and selection.)

Alternative: Do nothing but for the reasons stated in 6 above is not acceptable.

Preferred: Field Inspections have indicated a significant amount of degradation and decreased load carrying capacity of wood 345-kV structures (many of the poles show signs of decay, woodpecker damage, rot, and deterioration). Replacing the structures resolves multiple structural/hardware issues and supports safe and reliable operation of the transmission line.

17. Has state and local siting been completed? If yes, explain the siting process and any provisions that were made during siting, provide docket or siting reference numbers. If no, then explain when siting is expected to be completed and any provisions that have been agreed to.

No unusual siting or permitting was required for this project.

* Pool-Supported PTF costs were determined pursuant to Schedule 11 of Section II of the Tariff.

PROJECT COST ESTIMATE & SCHEDULE SHEET

Transmission Owner: Eversource Energy
Project Name: 379 Line 345kV Structure Replacements

ACL Project #: 58
Date: Feb-19

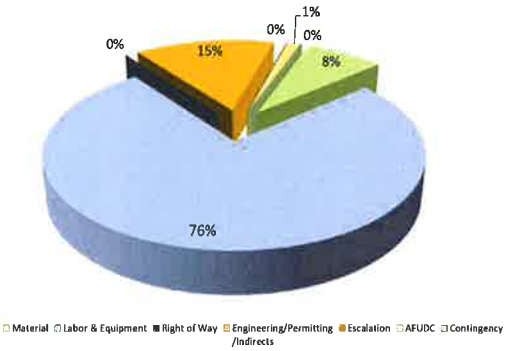
1. Project Scope Summary

Transmission Line Maintenance has identified 55 structures on the 379 345kV Line (Fitzwilliam substation - Vernon VT substation) that are in need of replacement as a result of foot and aerial patrols. The structures have one or more of the following deficiencies: woodpecker damage, rot, cracks and deteriorated steel mechanical connections.

2. Project Cost Summary

2.1. Project Cost Summary

	PTF	Non-PTF	Total
Material	$ 1,179	$ -	$ 1,179
Labor & Equipment	$ 11,000	$ -	$ 11,000
Right of Way	$ -	$ -	$ -
Engineering/Permitting /Indirects	$ 2,080	$ -	$ 2,080
Escalation	$ -	$ -	$ -
AFUDC	$ 190	$ -	$ 190
Contingency	$ 4	$ -	$ 4
Total Project Cost	$ 14,453	$ -	**$ 14,453**



2.2 Detailed Cost Summary By Project Element

	Material	Labor & Equip.	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Total
379 345kV Line Structure Replacements	$ 1,179	$ 11,000	$ -	$ 2,080	$ -	$ 190	$ 4	$ 14,453	$ 14,453
Total	**$ 1,179**	**$ 11,000**	**$ -**	**$ 2,080**	**$ -**	**$ 190**	**$ 4**	**$ 14,453**	**$ 14,453**

Note: Values expressed in $1k

3. Project Milestone Schedule

Description			2016	2017	2018	2019	2020	2021	2022
			Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4
Siting & Permitting									
Approval and Permits	11/01/2017	03/01/2018							
Engineering									
Engineering and Design	08/01/2017	02/01/2018							
Land									
Material	09/01/2017	04/01/2018							
Construction									
Construction	10/01/2017	11/01/2018							
			Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4	Qtr1 Qtr2 Qtr3 Qtr4
			2016	2017	2018	2019	2020	2021	2022

379 Line 345-kV Structure Replacement Project Correlation Table

TCA Item	RSP: Project ID #	Study: Reliability Issues Requiring Action	PPA Application: PPA No.	PPA Application: Preferred Solution Description	PAC/RC Meeting: Presentation Reference	TCA Application: PTF Estimate	TCA Application: Non-PTF Estimate
ES-19-TCA-10	58	n/a	n/a	Replace 55 wood 345-kV structures with light-duty steel pole structures, including hardware, insulators, and guys.	Per PAC Presentation 12/20/2017	$ 14,453	
				SUBTOTAL		$ 14,453	$ -